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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,860

DATE: 12/11/2000 TIME: 13:23:11 **ENTERED** 

Input Set : A:\99372Aseq.txt

Output Set: N:\CRF3\12112000\1724860.raw

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             Wen, Duanzhi
             Kelly, Michael
     7 <120> TITLE OF INVENTION: Interferon-Like Molecules and Uses Thereof
     9 <130> FILE REFERENCE: 99,372-A
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/724,860
C--> 12 <141> CURRENT FILING DATE: 2000-11-28
    14 <150> PRIOR APPLICATION NUMBER: 60/169,720
    15 <151> PRIOR FILING DATE: 1999-12-08
    17 <160> NUMBER OF SEQ ID NOS: 39
    19 <170> SOFTWARE: PatentIn Ver. 2.0
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    40 Leu Lys Tyr Leu Trp Leu Val Ala Leu Val Ala Leu Tyr Ile Ser Pro
                                   10
    43 atc cag tot cag aac tgt gtg tat ctg gat cat acc atc ttg gaa aac
    44 Ile Gln Ser Gln Asn Cys Val Tyr Leu Asp His Thr Ile Leu Glu Asn
                               2.5
    47 atg aaa ott otg age age ate agg acc acc ttt occ tta aga tgt ota
    48 Met Lys Leu Leu Ser Ser Ile Arg Thr Thr Phe Pro Leu Arg Cys Leu
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                                               4.5
    51 aaa gat atc acg gat ttt gag ttt cct caa gag att ctg ctg tac gtc
                                                                         250
    52 Lys Asp Ile Thr Asp Phe Glu Phe Pro Gln Glu Ile Leu Leu Tyr Val
                 55
                                          60
    55 cag cat gtg aaa aag gac ata aag gca gtc acc tat cat ata tct tct
    56 Gln His Val Lys Lys Asp Ile Lys Ala Val Thr Tyr His Ile Ser Ser
                                       75
                   70
    59 ctg gcg cta att att ttc agt ctt aaa gac tcc atc tcc ctg gcg aca
    60 Leu Ala Leu Ile Ile Phe Ser Leu Lys Asp Ser Ile Ser Leu Ala Thr
                                   90
                                                       95
            85
                                                                         394
    63 gag gaa cgc ttg gaa cgt atc aga tcg gga ctt ttc aaa caa gtg cag
    64 Glu Glu Arg Leu Glu Arg Ile Arg Ser Gly Leu Phe Lys Gln Val. Gln
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    67 caa get ega gag tge atg gta gae gag gag aac aag aac aeg gag gag
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 DATE: 12/11/2000

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68 Gln Ala Arg Glu Cys Met Val Asp Glu Glu Asn Lys Asn Thr Glu Glu 1.20 71 gac agt aca toa caa cat cot cac toa gag ggc ttc aag goa gtc tac 490 72 Asp Ser Thr Ser Gln His Pro His Ser Glu Cly Phe Lys Ala Val Tyr 135 140 75 ctg gaa ttg aac aag tat ttc ttc aga atc aga aag ttc ctg gta aat 76 Leu Glu Leu Asn Lys Tyr Phe Phe Arg lle Arg Lys Phe Leu Val Asn 77 150 1.55 1.60 79 aag aam tac agt ttc tgt gec tgg aag att gtc gtg gtg gam ata agm 586 80 Lys Lys Tyr Ser Phe Cys Ala Trp Lys Ile Val Val Glu Ile Arg 170 81 165 175 83 aga tgt ttc agt ata ttt tac aaa cta ctc aac atg aat tgagaatcat 84 Arg Cys Phe Ser Ile Phe Tyr Lys Leu Asn Met Asn 185 190 87 ccagetteaa geaagaaett agatagaagt tgtgaetget caaatgteee caagaaeget 695 89 tyattotaag gotattgoga gtotgotgot acacaettog gacgoaagac titteaaggi 755 91 cagggttcaa ggtagtacag tcaaaggaag tcttatgtta agcaaaagaa aaatttcagt 815 93 ggaaaageta geagaaatgt caacttgtea aaaaaacaac ttatggatta tggeattgae 875 95 gttactagca aaaaaaataa aacaaaaaa aacaaaaa 98 <210> SEQ ID NO: 2 99 <211> LENGTH: 191 100 <212> TYPE: PRT 101 <213> ORGANISM: Rattus norvegicus 103 <400> SEQUENCE: 2 104 Met Thr Leu Lys Tyr Leu Trp Leu Val Ala Leu Val Ala Leu Tyr Ile 5 10 107 Ser Pro Ile Gln Ser Gln Asn Cys Val Tyr Leu Asp His Thr Ile Leu 108  $\phantom{\bigg|}20\phantom{\bigg|}25\phantom{\bigg|}30\phantom{\bigg|}$ 110 Glu Asn Met Lys Leu Leu Ser Ser Ile Arg Thr Thr Phe Pro Leu Arg 111 35 40 113 Cys Leu Lys Asp Ile Thr Asp Phe Glu Phe Pro Gln Glu Ile Leu Leu 114  $\phantom{000}50\phantom{000}$  55  $\phantom{000}60\phantom{000}$ 116 Tyr Val Gln His Val Lys Lys Asp Ile Lys Ala Val Thr Tyr His Ile 117 65 70 75 80119 Ser Ser Leu Ala Leu Ile Ile Phe Ser Leu Lys Asp Ser Ile Ser Leu 120 85 90 95 122 Ala Thr Glu Glu Arg Leu Glu Arg Ile Arg Ser Gly Leu Phe Lys Gln 123 100 105 110 125 Val Gln Gln Ala Arg Glu Cys Met Val Asp Glu Glu Asn Lys Asn Thr 126 115 120 125 128 Glu Glu Asp Ser Thr Ser Gln His Pro His Ser Glu Gly Phe Lys Ala 129  $\,$  130  $\,$  135  $\,$  140 131 Val Tyr Leu Glu Leu Asn Lys Tyr Phe Phe Arg Ile Arg Lys Phe Leu 132 145 150 155 134 Val Asn Lys Lys Tyr Ser Phe Cys Ala Trp Lys Ile Val Val Val Glu 135 165 170 175 137 lle Arg Arg Cys Phe Ser Ile Phe Tyr Lys Leu Leu Asn Met Asn 180 141 <210> SEQ ID NO: 3

RAW SEQUENCE LISTING DATE: 12/11/2000 PATENT APPLICATION: US/09/724,860 TIME: 13:23:11

Input Set : A:\99372Aseq.txt

Output Set: N:\CRF3\12112000\1724860.raw

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153 Phe Glu Phe Pro Gln Glu Tle Leu Leu Tyr Val Gln His Val Lys Lys
154 35
                        40
156 Asp Ile Lys Ala Val Thr Tyr His Ile Ser Ser Leu Ala Leu Ile Ile 157 \phantom{000}55\phantom{000} \phantom{000}55\phantom{000} 60
159 Phe Ser Leu Lys Asp Ser Ile Ser Leu Ala Thr Glu Glu Arg Leu Glu 160 ^{\circ} 65 ^{\circ} 70 ^{\circ} 75 ^{\circ} 80
162 Arg Ile Arg Ser Gly Leu Phe Lys Gln Val Gln Gln Ala Arg Glu Cys
163 85 90 95
165 Met Val Asp Glu Glu Asn Lys Asn Thr Glu Glu Asp Ser Thr Ser Gln 166 100 105 110
168 His Pro His Ser Glu Gly Phe Lys Ala Val Tyr Leu Glu Leu Asn Lys
169 115 120 125
169 115
171 Tyr Phe Phe Arg Ile Arg Lys Phe Leu Val Asn Lys Lys Tyr Ser Phe 172 130 135 140
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174 Cys Ala Trp Lys Ile Val Val Val Glu Ile Arg Arg Cys Phe Ser Ile
175 145 150 150 160
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199 getatageae caggtacaaa aaatatattt teatgaagga teaeteeete ttatgtaata 180
201 gatttgggtg agtgagtgag tgagtgagtg catggactca cagettttgg etttetgaaa 240
203 taccetgeat caytettigtt atgatgatte ettagtigetig ggatggatea tecaggeatt 300
205 taaggtaaca cgatggtaat totttgctca tttttcaggg aaaaaaaaaa gttatcactt 360
209 aaaggaaagg ggccgcaacc ttggttaact gtgaaatgac gaatgagaaa actectectg 480
211 ctgaagatat tcaggtatat aaaggcacat gaaggaaaac tcaaaacatc attgtcatat 540
213 acacatette tggatttttt agettgeaaa aaaa atg age ace aaa eet gat atg 595
                                             Met Ser Thr Lys Pro Asp Met
214
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215

DATE: 12/11/2000 TIME: 13:23:12 RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/724,860

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Output Set: N:\CRF3\12112000\1724860.raw

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218	Ile	Gln	Lys	Cys	Leu	Trp	Leu	Glu	Ile	Leu	Met	G1.y	Ile	Phe	Tle	Ala	
219			1.0					1.5					20				
								aac									691
222	Gly	Thr	Leu	Ser	Leu	Asp	Cys	Asn	Leu	Leu	Asn	Val	His	Leu	Arg	Arg	
223		25					30					35					
225	gtc	acc	tgg	caa	aat	ctg	aga	cat	ct.g	agt	agt	atg	agc	aat	Lca	ttt	739
226	Val	Thr	Trp	Gln	Asn	Leu	Arg	His	Leu	Ser	ser	Met	ser	Asn	ser	Phe	
227	40					45					50					55	
229	cct	gta	gaa	tgt	cta	cga	gaa	aac	ata	gct	ttt	gag	ttg	CCC	caa	gag	787
230	Pro	Val	Glu	Cys	Leu	Arg	Glu	Asn	Ile	Ala	Phe	Glu	Leu	Pro	Gln	Glu	
231					60					65					70		
233	ttt	ctg	caa	tac	acc	çaa	cct	atg	aag	agg	gac	atc	aag	aag	gcc	ttc	835
234	Phe	Leu	Gln	Tyr	Th.r	Gln	Pro	Met	Lys	Arg	Asp	He	Lys	Lys	Ala	Phe	
235				75					80					85			
237	tat	gaa	atg	toc	cta	cag	gee	ttc	aac	atc	ttc	agc	caa	cac	acc	ttc	883
238	Tyr	Glu	Met	ser	Leu	Gln	Ala	Phe	Asn	Ile	Phe	Ser	Gln	His	Thr	Phe	
239			90					95					100				
241	aaa	tat	t_gg	aaa	gag	aya	cac	ctc	aaa	caa	atc	caa	ata	gga	ctt	gat	931
242	Lys	Tyr	Trp	Lys	Glu	Arg	His	Leu	Lys	Gln	He	Gln	He	$Gl\gamma$	Leu	Asp	
243		105					1.1.0					115					
245	cag	caa	gca	gag	tac	ctg	aac	caa	t.gc	ttg	gag	gaa	gac	gag	aat:	gaa	979
246	Gln	Gln	Ala	Glu	Tyr	Leu	Asn	G1 n	Cys	Leu	Glu	Glu	Asp	Glu	Asn	Glu	
247	120					125					130					135	
249	aat	gaa	gac	atg	aaa	gaa	atg	aaa	gag	aat	gaq	atg	aaa	CCC	tca	gaa	1027
250	Asn	GLu	Asp	Met	Lys	Glu	Met	Lys	Glu	Asn	Glu	Met	Lys	Pro	Ser	Glu	
251					1.40					145					150		
253	gcc	agg	gtc	ccc	cag	ctg	agc	agc	ctg	gaa	ctg	agg	aga	tat	ttc	cac	1.075
254	Ala	Arg	Va 1.	Pro	Gln	Leu	ser	ser	Leu	Glu	Leu	Arg	Arg	Tyr	Phe	His	
255				155					160					165			
257	agg	ata	gac	aat	ttc	ctg	aaa	gaa	aag	aaa	tac	agt	gac	tgt.	gcc	tgg	1123
258	Arg	I l.e	Asp	Asn	Phe	Leu	Lys	G.l.u	Lys	Lys	туr	Ser	Asp	Cys	Αla	Trp	
259			1.70					175					180				
	-		-			•		aga	-								1171
262	G.l u	Ile	Va l	Arg	Va.L	G.Lu	Ile	Λrg	Arg	Cys	Leu	Tyr	туr	Phe	Туг	Lys	
263		185					190					195					
			-						taag	ıgtat	at 1	ittt	ggaat	it a	aaati	cctt	1225
		Thr	Ala	ren	Phe		Arg	Lys									
267						205											
			-												-	ttgtgc	
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					•-											agtct	
							-			**						igotot	
			_		-	-		-								caagac	
	-					_		-	_						•	cttaac	
		_				•		_			••				-	tataca	
			**				-				-					gttga	
		-									-		-			utggta	
287	tttc	catta	act 1	taag	gayte	ja ag	gatico	catag	tga	aatt	gga	tgga	tggt	itg a	aatta	agacga	1825

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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/724,860

DATE: 12/11/2000 TIME: 13:23:13

Input Set : A:\99372Aseq.txt
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 $\ \, \text{L:11 M:270 C: Current Application Number differs, Replaced Application Number L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date }$